RAW SEQUENCE LISTING

·The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _10/520, 820_
Source: _PCT_
Date Processed by STIC: _08/22/2005_

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PCT

RAW SEQUENCE LISTING   DATE: 08/22/2005
PATENT APPLICATION: US/10/520,820   TIME: 17:06:40

Input Set : A:\PTO.KD.txt
Output Set: N:\CRF4\08222005\J520820.raw

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     3 <110> APPLICANT: MUTABILIS S.A.
W-->  4 <120> TITLE OF INVENTION: Pathogenicity determinants which can be used as targets for
developing
W-->  5        means for preventing and controlling bacterial infections and/or systemic
W-->  6        dissemination
     9 <130> FILE REFERENCE: 1621
    11 <140> CURRENT APPLICATION NUMBER: 10/520,820
C--> 12 <141> CURRENT FILING DATE: 2005-01-07
    14 <150> PRIOR APPLICATION NUMBER: PCT/EP2003/008209
    15 <151> PRIOR FILING DATE: 2003-07-09
    17 <150> PRIOR APPLICATION NUMBER: FR 0208636
    18 <151> PRIOR FILING DATE: 2002-07-09
    20 <160> NUMBER OF SEQ ID NOS: 32
    22 <170> SOFTWARE: PatentIn version 3.1
    24 <210> SEQ ID NO: 1
    25 <211> LENGTH: 305
    26 <212> TYPE: PRT
    27 <213> ORGANISM: Escherichia coli
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    36                 20                  25                  30
    39 Val Glu Arg Val Ile Pro Val Ala Ile Arg Arg Trp Arg Lys Ala Trp
    40             35                  40                  45
    43 Phe Ser Ala Pro Ile Lys Ala Glu Arg Lys Ala Phe Arg Glu Ala Leu
    44         50                  55                  60
    47 Gln Ala Glu Asn Tyr Asp Ala Val Ile Asp Ala Gln Gly Leu Val Lys
    48 65                  70                  75                  80
    51 Ser Ala Ala Leu Val Thr Arg Leu Ala His Gly Val Lys His Gly Leu
    52                 85                  90                  95
    55 Asp Trp Gln Thr Ala Arg Glu Pro Leu Ala Ser Leu Phe Tyr Asn Cys
    56                 100                 105                 110
    59 Lys His His Ile Ala Lys Gln Gln His Ala Val Glu Arg Thr Arg Glu
    60         115                 120                 125
    63 Leu Phe Ala Lys Ser Leu Gly Tyr Ser Lys Pro Gln Thr Gln Gly Asp
    64     130                 135                 140
    67 Tyr Ala Ile Ala Gln His Phe Leu Thr Asn Leu Pro Thr Asp Ala Gly
    68 145                 150                 155                 160
    71 Glu Tyr Ala Val Phe Leu His Ala Thr Thr Arg Asp Asp Lys His Trp
    72                 165                 170                 175
    75 Pro Glu Glu His Trp Arg Glu Leu Ile Gly Leu Leu Ala Asp Ser Gly
    76                 180                 185                 190
    79 Ile Arg Ile Lys Leu Pro Trp Gly Ala Pro His Glu Glu Glu Arg Ala
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      Input Set : A:\PTO.KD.txt
      Output Set: N:\CRF4\08222005\J520820.raw

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83  Lys Arg Leu Ala Glu Gly Phe Ala Tyr Val Glu Val Leu Pro Lys Met
84    ·210                   215                   220
87  Ser Leu Glu Gly Val Ala Arg Val Leu Ala Gly Ala Lys Phe Val Val
88  225 _                230                   235                   240
91  Ser Val Asp Thr Gly Leu Ser His Leu Thr Ala Ala Leu Asp Arg Pro
92                 245                   250                   255
95  Asn Ile Thr Val Tyr Gly Pro Thr Asp Pro Gly Leu Ile Gly Gly Tyr
96             260                   265                   270
99  Gly Lys Asn Gln Met Val Cys Arg Ala Pro Gly Asn Glu Leu Ser Gln
100    .      275                   280                   285
103 Leu Thr Ala Asn Ala Val Lys Arg Phe Ile Glu Glu Asn Ala Ala Met
104         290                   295                   300
107 Ile
108 305
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112 <211> LENGTH: 340
113 <212> TYPE: PRT
114 <213> ORGANISM: Escherichia coli
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124             20                  25                  30
127 Asp Thr Ile Pro Ile Leu Ser Glu Asn Pro Glu Ile Asn Ala Leu Tyr
128             35                  40                  45
131 Gly Ile Lys Asn Lys Lys Ala Lys Ala Ser Glu Lys Ile Ala Asn Phe
132     50                  55                  60
135 Phe His Leu Ile Lys Val Leu Arg Ala Asn Lys Tyr Asp Leu Ile Val
136 65                  70                  75                  80
139 Asn Leu Thr Asp Gln Trp Met Val Ala Ile Leu Val Arg Leu Leu Asn
140             85 ·                90                  95
143 Ala Arg Val Lys Ile Ser Gln Asp Tyr His His Arg Gln Ser Ala Phe
144             100                 105         .       110
147 Trp Arg Lys Ser Phe Thr His Leu Val Pro Leu Gln Gly Gly Asn Val
148         115                 120                 125
151 Val Glu Ser Asn Leu Ser Val Leu Thr Pro Leu Gly Val Asp Ser Leu
152     130                 135                 140
155 Val Lys Gln Thr Thr Met Ser Tyr Pro Pro Ala Ser Trp Lys Arg Met
156 145                 150                 155         ·     160
159 Arg Arg Glu Leu Asp His Ala Gly Val Gly Gln Asn Tyr Val Val Ile
160             165                 170                 175   .
163 Gln Pro Thr Ala Arg Gln Ile Phe Lys Cys Trp Asp Asn Ala Lys Phe
164         180                 185 ·               190
167 Ser Ala Val Ile Asp Ala Leu His Ala· Arg Gly Tyr Glu Val Val Leu
168         195                 200                 205
171 Thr Ser Gly Pro Asp Lys Asp Asp Leu Ala Cys Val Asn Glu Ile Ala
172     210                 215                 220
175 Gln Gly Cys Gln Thr Pro Pro Val Thr Ala Leu Ala Gly Lys Val Thr
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176 225                   230               235               240
179 Phe Pro Glu Leu Gly Ala Leu Ile Asp His Ala Gln Leu Phe Ile Gly
180              ·        245               250               255
183 Val Asp Ser Ala Pro Ala His Ile Ala Ala Ala Val Asn Thr Pro Leu
184              260               265               270
187 Ile Ser Leu Phe Gly Ala Thr Asp His Ile Phe Trp Arg Pro Trp Ser
188          275               280               285
191 Asn Asn Met Ile Gln Phe Trp Ala Gly Asp Tyr Arg Glu Met Pro Thr
192      290               295               300
195 Arg Asp Gln Arg Asp Arg Asn Glu Met Tyr Leu Ser Val Ile Pro Ala
196 305               310               315               320
199 Ala Asp Val Ile Ala Ala Val Asp Lys Leu Leu Pro Ser Ser Thr Thr
200              325               330               335
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208 <211> LENGTH: 265
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210 <213> ORGANISM: Escherichia coli
212 <400> SEQUENCE: 3
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218 Pro Phe Glu Glu Val Lys Thr Leu Gln Gly Glu Val Phe Arg Glu Leu
219              20                25                30
222 Glu Thr Arg Arg Thr Leu Arg Phe Glu Met Ala Gly Lys Ser Tyr Phe
223          35                40                45          .
226 Leu Lys Trp His Arg Gly Thr Thr Leu Lys Glu Ile Ile Lys Asn Leu
227     50                55                60
230 Leu Ser Leu Arg Met Pro Val Leu Gly Ala Asp Arg Glu Trp Asn Ala
231 65               70                75                80
234 Ile His Arg Leu Arg Asp Val Gly Val Asp Thr Met Tyr Gly Val Ala
235              85                90                95
238 Phe Gly Glu Lys Gly Met Asn Pro Leu Thr Arg Thr Ser Phe Ile Ile
239          100               105               110
242 Thr Glu Asp Leu Thr Pro Thr Ile Ser Leu Glu Asp Tyr Cys Ala Asp
243          115               120               125
246 Trp Ala Thr Asn Pro Pro Asp Val Arg Val Lys Arg Met Leu Ile Lys
247     130               135               140
250 Arg Val Ala Thr Met Val Arg Asp Met His Ala Ala Gly Ile Asn His
251 145               150               155               160
254 Arg Asp Cys Tyr Ile Cys His Phe Leu Leu His Leu Pro Phe Ser Gly
255          165               170               175
258 Lys Glu Glu Glu Leu Lys Ile Ser Val Ile Asp Leu His Arg Ala Gln
259          180               185               190
262 Leu Arg Thr Arg Val Pro Arg Arg Trp Arg Asp Lys Asp Leu Ile Gly
263          195               200               205
266 Leu Tyr Phe Ser Ser Met Asn Ile Gly Leu Thr Gln Arg Asp Ile Trp
267     210               215               220
270 Arg Phe Met Lys Val Tyr Phe Ala Ala Pro Leu Lys Asp Ile Leu Lys
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271 225                 230                 235                 240
274 Gln Glu Gln Gly Leu Leu Ser Gln Ala Glu Ala Lys Ala Thr Lys Ile
275                 245                 250                 255
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279           260                 265
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283 <211> LENGTH: 374
284 <212> TYPE: PRT
285 <213> ORGANISM: Escherichia coli
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293 Gln Arg Asp Phe Met Arg Ile Ala Gln Thr Val Ala Ala Arg Gly His
294             20                  25                  30
297 His Val Arg Val Tyr Thr Gln Ser Trp Glu Gly Glu Cys Pro Asp Val
298         35                  40                  45
301 Phe Glu Leu Ile Lys Val Pro Val Lys Ser His Thr Asn His Gly Arg
302     50                  55                  60
305 Asn Ala Glu Tyr Phe Ala Trp Val Gln Lys His Leu Arg Glu His Pro
306 65                  70                  75                  80
309 Val Asp Lys Val Val Gly Phe Asn Lys Met Pro Gly Leu Asp Val Tyr
310                 85                  90                  95
313 Tyr Ala Ala Asp Val Cys Tyr Ala Glu Lys Val Ala Gln Glu Lys Gly
314             100                 105                 110
317 Phe Phe Tyr Arg Leu Thr Ser Arg Tyr Arg His Tyr Ala Ala Phe Glu
318             115                 120                 125
321 Arg Ala Thr Phe Glu Gln Gly Lys Pro Thr Gln Leu Leu Met Leu Thr
322     130                 135                 140
325 Asp Lys Gln Ile Ala Asp Phe Gln Lys His Tyr Gln Thr Glu Ala Glu
326 145                 150                 155                 160
329 Arg Phe His Ile Leu Pro Pro Gly Ile Tyr Pro Asp Arg Lys Tyr Ser
330                 165                 170                 175
333 Gln Gln Pro Ala Asn Ser Arg Glu Ile Phe Arg Lys Lys Asn Gly Ile
334             180                 185                 190
337 Thr Glu Gln Gln Tyr Leu Leu Leu Gln Val Gly Ser Asp Phe Thr Arg
338             195                 200                 205
341 Lys Gly Val Asp Arg Ser Ile Glu Ala Leu Ala Ser Leu Pro Asp Ser
342     210                 215                 220
345 Leu Arg His Asn Thr Leu Leu Tyr Val Val Gly Gln Asp Lys Pro Arg
346 225                 230                 235                 240
349 Lys Phe Glu Ala Leu Ala Glu Lys Arg Gly Val Arg Ser Asn Val His
350             245                 250                 255
353 Phe Phe Ser Gly Arg Asn Asp Val Ser Glu Leu Met Ala Ala Ala Asp
354             260                 265                 270
357 Leu Leu Leu His Pro Ala Tyr Gln Glu Ala Ala Gly Ile Val Leu Leu
358         275                 280                 285
361 Glu Ala Ile Thr Ala Gly Leu Pro Val Leu Thr Thr Ala Val Cys Gly
362     290                 295                 300
365 Tyr Ala His Tyr Ile Val Asp Ala Asn Cys Gly Glu Ala Ile Ala Glu
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366 305                    310                 315                 320
369 Pro Phe Arg Gln Glu Thr Leu Asn Glu Ile Leu Arg Lys Ala Leu Thr
370                325                 330                 335
373 Gln Ser Ser Leu Arg Gln Ala Trp Ala Glu Asn Ala Arg His Tyr Ala
374                340                 345                 350
377 Asp Thr Gln Asp Leu Tyr Ser Leu Pro Glu Lys Ala Ala Asp Ile Ile
378         355                 360                 365
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385 <210> SEQ ID NO: 5
386 <211> LENGTH: 348
387 <212> TYPE: PRT
388 <213> ORGANISM: Escherichia coli

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397                20                  25                  30
400 Ile Asp Val Met Ala Pro Ala Trp Cys Arg Pro Leu Leu Ser Arg Met
401         35                  40                  45
404 Pro Glu Val Asn Glu Ala Ile Pro Met Pro Leu Gly His Gly Ala Leu
405      50                  55                  60
408 Glu Ile Gly Glu Arg Arg Lys Leu Gly His Ser Leu Arg Glu Lys Arg
409 65                  70                  75                  80
412 Tyr Asp Arg Ala Tyr Val Leu Pro Asn Ser Phe Lys Ser Ala Leu Val
413                85                  90                  95
416 Pro Phe Phe Ala Gly Ile Pro His Arg Thr Gly Trp Arg Gly Glu Met
417                100                 105                 110
420 Arg Tyr Gly Leu Leu Asn Asp Val Arg Val Leu Asp Lys Glu Ala Trp
421         115                 120                 125
424 Pro Leu Met Val Glu Arg Tyr Ile Ala Leu Ala Tyr Asp Lys Gly Ile
425      130                 135                 140
428 Met Arg Thr Ala Gln Asp Leu Pro Gln Pro Leu Leu Trp Pro Gln Leu
429 145                 150                 155                 160
432 Gln Val Ser Glu Gly Glu Lys Ser Tyr Thr Cys Asn Gln Phe Ser Leu
433                165                 170                 175
436 Ser Ser Glu Arg Pro Met Ile Gly Phe Cys Pro Gly Ala Glu Phe Gly
437                180                 185                 190
440 Pro Ala Lys Arg Trp Pro His Tyr His Tyr Ala Glu Leu Ala Lys Gln
441         195                 200                 205
444 Leu Ile Asp Glu Gly Tyr Gln Val Val Leu Phe Gly Ser Ala Lys Asp
445      210                 215                 220
448 His Glu Ala Gly Asn Glu Ile Leu Ala Ala Leu Asn Thr Glu Gln Gln
449 225                 230                 235                 240
452 Ala Trp Cys Arg Asn Leu Ala Gly Glu Thr Gln Leu Asp Gln Ala Val
453                245                 250                 255
456 Ile Leu Ile Ala Ala Cys Lys Ala Ile Val Thr Asn Asp Ser Gly Leu
457         260                 265                 270
460 Met His Val Ala Ala Ala Leu Asn Arg Pro Leu Val Ala Leu Tyr Gly
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VERIFICATION SUMMARY   DATE: 08/22/2005
PATENT APPLICATION: US/10/520,820   TIME: 17:06:41

Input Set : **A:\PTO.KD.txt**
Output Set: **N:\CRF4\08222005\J520820.raw**

L:4 M:283 W: Missing Blank Line separator, <120> field identifier
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date